OVERVIEW OF NAVY PLANS AND NEEDS

JLOTS R&D SYMPOSIUM

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Outline

- Introduction
- CINC Requirements
- R&D Requirements
- JLOTS Master Plan
- Summary

Significant Investment in Sealift ...

- $6B Large Medium Speed Roll-on/Roll-off (LMSR) ship acquisition program (since 1990)
- FY00 (O&S): $ 700M Afloat Prepositioning Ships (MPS, AWR-3, USAF)

  $ 350M Ready Reserve Force (RRF)

LMSR

MPS

…But need to offload cargo in-stream

Need flexibility to offload where austere, damaged, or no ports exist

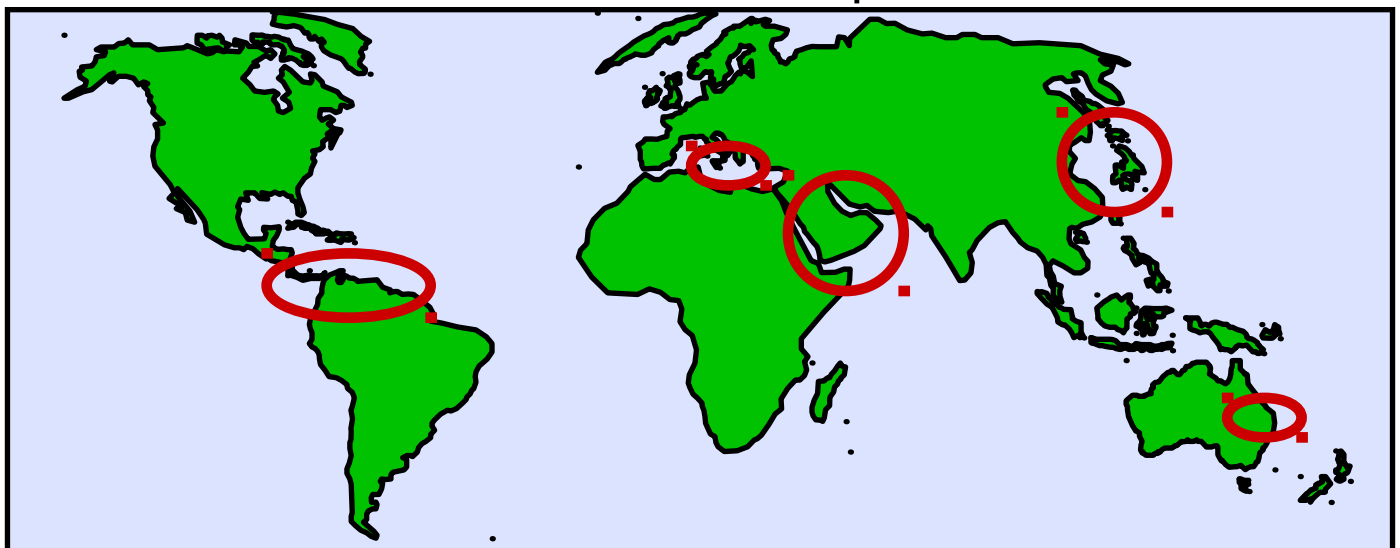
- ***90%*** *Desert Shield/Desert Storm cargo moved by sea*
- *Fixed Ports of Debarkation:* *tempting targets of opportunity*
  - WMD: chemical/biological
  - Terrorist

CINC Requirements

- **Sustain safe operations in sea state 3**
- **Service interoperability**

A WAR STOPPER

- Example: Some ship offload operations were curtailed in Somalia and most recently in Combined/Joint Exercise Tandem Thrust in Feb/Mar 97 and due to inability to operate in higher sea states...
- ...But sea state 3 is a worldwide problem.



In some Cinc Areas of Responsibility (AORs), sea state 3 exists up to 50% of the time!

Future JLOTS Concepts

- R&D Requirements must also look to future concepts now evolving:
  - Operational Maneuvering From the Sea (OMFTS)
  - Ship To Objective Maneuver (STOM)
  - MPF Future: 2010 and Beyond

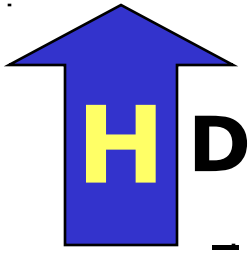
Navy R&D Requirements

- Defense Planning Guidance for JLOTS:
  - Services will continue to evaluate Sea State 3 technologies against throughput requirements and will program to field a JLOTS SS3 capability by FY 2005

Navy R&D Requirements

- **Logistics** – **focuses on developing and maintaining an affordable logistical support capability that enables rapid deployment and sustainment of U.S. combat forces**
  - **JLOTS - provides improvements to increase throughput, esp in higher sea states (SS3 and above)**
  - **Seabased Logistics- improvements to include total asset visibility, just-in-time logistics systems**
- **Training** – **enhance personnel readiness at lower cost with effective training, delivered when and where required**

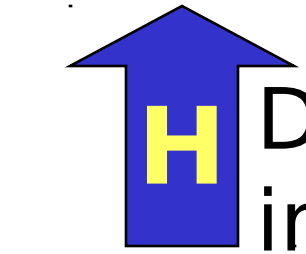
JLOTS R&D Requirements



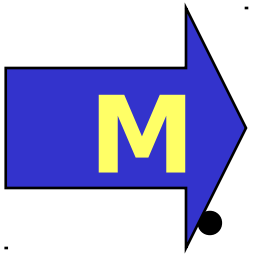
Develop throughput technology to

- increase ability to operate through Sea State 3 in all phases of ship-to-shore cargo movement
- provide a rapidly deployable bulk fuel delivery system to support the assault echelon and JLOTS
- extend standoff distances from the shore that support OMFTS

JLOTS R&D Requirements

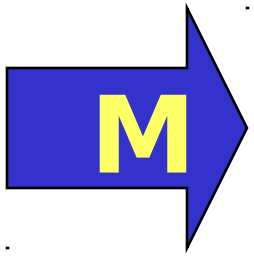


- Develop throughput technology to improve mechanized cargo/weapons handling from sea to shore



- Develop technology to reduce the effect of sea states surrounding a seabase to a value less than or equal to 3

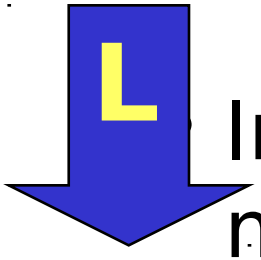
JLOTS R&D Requirements



Develop JLOTS deployment and retrieval technology to:

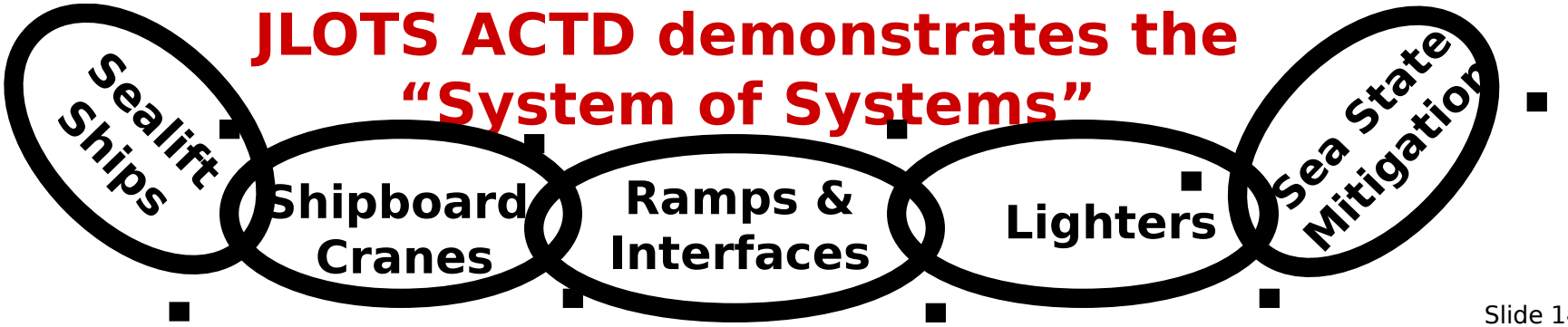
- reduce installation and retrieval times of JLOTS sub-systems with a goal of at least 25-50% of established doctrine

JLOTS R&D Requirements



- Improve or develop advanced modeling and simulation technology to:
  - develop operations analysis techniques to maximize effective use of JLOTS assets
  - develop analytical tools to support design, assessment, and acquisition of future JLOTS systems

JLOTS ACTD demonstrates the "System of Systems"



Joint Integrated Process Team

- Chartered by Army-Navy JLOTS MOA in Aug 96
- Last met on 19 JAN 01
- Long-range vision: *Enhance coordination between Services and the JLOTS community and optimize cargo throughput for CINC warfighter*

- Near-term focus: *Develop plan for integrated, Service-interoperable Sea State 3 (SS3) JLOTS capability*
  - ***JLOTS Support Systems MNS***: Overarching document detailing requirement for SS3 JLOTS capability

    Navy approved May 97, Army approved Aug 97

JLOTS JIPT Focus Groups

Ship Operations &Cargo Movement
Mooring, Fendering, and Ramp Interface
Ship-to-Shore and Lighter Discharge Operations
Sea State Mitigation
Training, C2, & Doctrine

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NAVSEA	CDNSWC	NAVFAC	WES	EWTGPAC

Progress

- **Accelerated and Efficient Processes**
- **Teaming……Services, User Community & Industry**

Near Term Objectives

- **Meet Quarterly**
- **Update JLOTS Master Plan and post on Web Site**

Summary

- Navy JLOTS R&D efforts support JLOTS Master Plan:
  - ***Addresses High Level Requirement***
    - ***Defense Planning Guidance***
  - ***-- Integrates entire JLOTS community***
    - **-- Operators**
    - **-- Services**
    - **-- Training**
    - **-- Research & Development**
    - **-- Acquisition**
  - ***Looks to future***

Sea State 3